UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND REGION

J.F.K. FEDERAL BUILDING, BOSTON, MASSACHUSETTS 02203-0001

MEMORANDUM

DATE: June 24, 1998

SUBJ: Inspection Report Summary

Superior Plating Company

Southport, CT

FROM: Steven Calder, Air Technical Unit

TO: File

The facility was targeted for a chromium MACT inspection because the facility failed its performance test for chromium as required under 40 C.F.R Part 63, Subpart N. During the inspection of Superior Plating Company (Superior) the inspector documented the facility continues to operate in violation of the chromium emission limit.

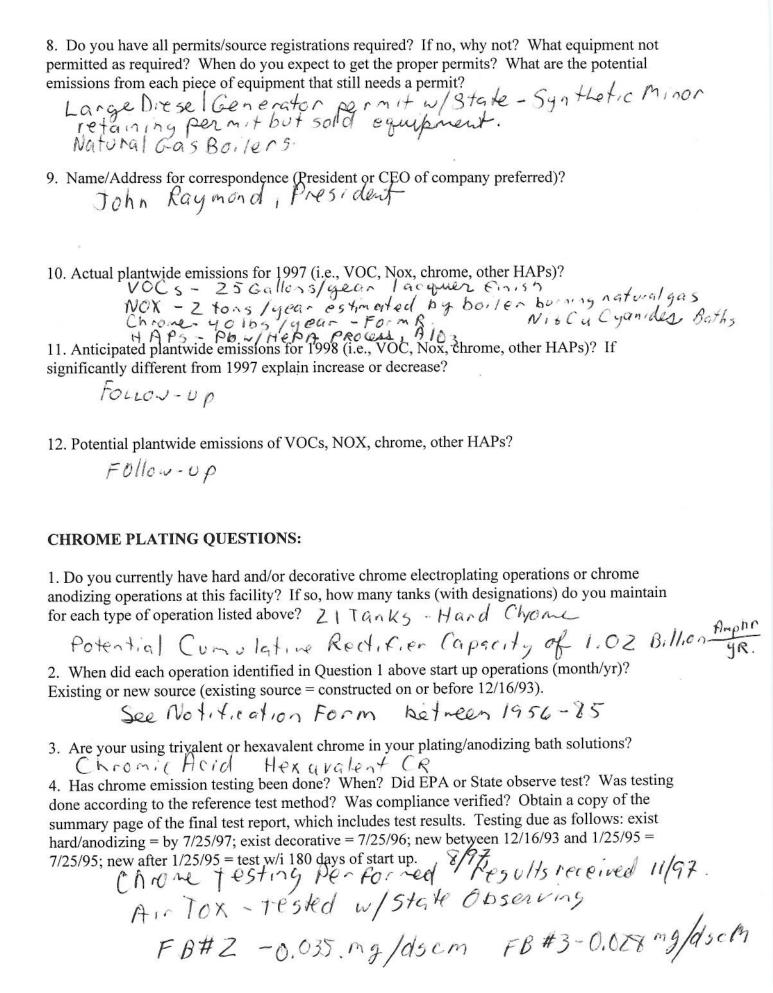
The facility was observed installing a new chromium emission control system. The roof was structurally reinforced with steel beams and the three new wet scrubbers were in place on the roof. The company is spending over \$900,000 to meet the standard and provided documents to show it costs for installation.

At the end of the inspection a close-out meeting was held with John Durrazo, Environmental Manager, Production Manager, and John Raymond, President. The following issue were discussed with the facility.

- 1. The main reason for the inspection was due to the facility failing the emission limits for chromium as required by the Chromium MACT standard.
- 2. The sand blasting glove box by the Nickel Room had material on the floor and dust in the room. The material is disposed of as hazardous waste and the material should be cleaned-up and the cyclone maintained to capture the material.
- 3. Although the floors and drains are connected to a closed-loop system for treatment by the onsite waste water treatment system, the facility could be more careful with spills and maintain the floors in a cleaner state. The Mr. Raymond thought that washing down the floors more often than once an 8-hour shift would help.
- 4. Regarding hazardous waste handling the dumpster of waste water sludge (F006) should be covered.

METAL FINISHING INSPECTION CHECKLIST March 24, 1998

| Inspector Name: Steven Caller Inspection Date: 6/15/98 Time: 10:30 |
|---|
| Facility Name: Superior Plating Company |
| Address: Lacey Place, Southport, CT 06490 |
| Contact/Title: Richard Durazzo Telephone No.: (203) 255-1501 |
| Inspection Attendees: S. Calder + R. Durgzzo |
| Credentials Presented To: R. Durazzo |
| GENERAL QUESTIONS: |
| 1. What do you manufacture at this facility? Electroplating Job Shop Coat Engineering Precision Equipment for Aerospace, Defense 60 ther Companies, Coat equipment such as Toolse Dye Makers Gun barrels, & excursion/notors. 2. Plant operating hours? 24 hr/day; 6 day/wk; 51 wk/yr 12 day saturday |
| 3. Commercial, Residential or Industrial area? Commercial near Residential |
| 4. No. of employees? 7/ |
| 5. Are you currently under a state order, consent agreement or consent decree for air concerns? If yes, for what? What document number? When was the document issued? Are you complying with the conditions of the document? State CTDEP $-NOV$ 1550ed 4/92. |
| 6. Any recent additions/modifications at the facility? What? If yes, were permits required and obtained? Yes Installing 3 new Wet Scrubbers to Control Cr Emission estimated to cost 7900,000 |
| 7. Any future additions/modifications planned? What? May require permits!! Only above in #6 |



5. Was an initial notice on your chrome plating/anodizing operations submitted to EPA or the State? On what date submitted (required by 7/25/95 for existing operations and simultaneously with notice of construction if new operation on or before 1/25/95 and within 30 days of commencement of construction for new operation after 1/25/95)? Ask to see a copy.

7/21/95 Letter

6. Was a notification of compliance status submitted? When? (Due by: if no testing required exist hard/anodizing = 2/24/97; exist decorative = 2/24/96; new 12/16/93 to 1/25/95 = 2/24/95; new after 1/25/95 = w/i 30 days of start up; if testing required - submit notice w/i 90 days of test completion). Ask to see a copy. (Compliance dates are as follows: exist hard/anodizing = 1/25/97; exist decorative = 1/25/96; newly installed between 12/16/93 and 1/25/95 = 1/25/95; new after 1/25/95 = upon startup).

Year.

7. Do you have an Operation and Maintenance plan in place? When implemented? (Due by: exist hard/anodizing = 1/25/97; exist decorative = 1/25/96; new = implement upon start up).

Yes, Copies of Check list & parametric Data received

- 8. Are you using a fume suppressant with a wetting agent to comply with the Chrome MACT Std. (applicable for decorative and anodizing operations only)? Also, a decorative plating operation using trivalent chromium and a wetting agent only needs to comply with certain recordkeeping (records of the bath components indicating clearly that a wetting agent is a component of the bath) and reporting requirements (see Section 63,347(i)).
- 9. If complying by use of a fume suppressant, are you monitoring and recording the plating bath surface tension and at the appropriate frequency? (Frequency is as follows: every 4 hours for the first 40 hours of tank operation; every 8 hours for the next 40 hours of tank operation; every 40 hours of tank operation thereafter until an exceedance occurs then resume more frequent monitoring as described above Also, once a chrome bath solution is drained and replaced with a new bath the more frequent monitoring is required as described above). Ask to see the log book of surface tension measurements.

10. If complying by use of a fume suppressant, are you maintaining the plating bath surface tension below 45 dynes/cm? (Based on review of log). If company has exceeded the surface tension limit, note how often the occurrences happen, the value of each exceedance and the duration of each exceedance. Once you observed an exceedance did you implement your O&M plan right away? Did you revert back to more frequent monitoring?

NA

| 11. What are you using to measure the plating bath surface tension? (i.e., stalagmometer or tensiometer)? Has the instrument been calibrated? How often and when is the instrument calibrated? Is this part of the O&M plan? |
|---|
| 12. Ask the facility representative to make a plating bath surface tension measurement during the inspection, if possible and applicable. (Note the measurement). |
| 13. If complying through means of an emission test, ask when testing was last done and for results of this and any other tests performed. (Outlet chromium concentration emission limit is as follows: new or existing anodizing and decorative = .01 mg/dscm; existing large hard chrome and all new hard chrome = .015 mg/dscm; existing small hard chrome = .03 mg/dscm) - Note small hard chrome defined as being below 60 million amp-hr/yr maximum potential cumulative rectifier capacity. |
| 14. What is the facility's maximum cumulative potential rectifier capacity (amp-hr/yr)? (for hard) (Calculated as: plantwide amperes at facility for hard chrome tank rectifiers x 8400 hrs x 0.7) (In ted by pour company) (apartis), 017 Billion amphinyr. + 0 620 Kilovatt 15. For each chromeplating operation, how long are the plating times on average? (hr/min) Most Job's 5 to to to to to to to to mil - max to mil (3days 15,500 Hap) 16. For each chromeplating operation, what is the typical plating thickness? (microns) |
| 17. When did you cease operation of any chromeplating or anodizing operations at this facility? Provide dates (month/yr). |
| 18. What are you using to control chromium emissions? 2 - F, ber Bed Demisters 10 x 10 x 6 to 8-inch |
| 19. Are you monitoring control and/or process equipment parameters? Which ones? What is used to measure or monitor each parameter? What are the inspection and monitoring frequencies? Are these found in your O&M plan? (Look at records/logs). 2 Packoss (Items 1 to 3 months cleaning cycle |

20. Are the appropriate records being kept to ensure compliance? Maintained for 5 years? Records required are based in part on compliance method used. Records required are as follows:

Ye5

| | Inspection records for monitoring and control device equipment - when inspected, working | |
|--|--|---|
| condition of device during inspection, actions taken to correct deficiencies of devices. | condition of device during inspection, actions taken to correct deficiencies of devices. | 1 |

- Maintenance records for all affected sources, control devices and monitoring equipment.

- Malfunction records for control devices, process equipment and monitoring equipment occurrences, duration and cause. Non-routine log

- Action taken during malfunction if inconsistent with O&M plan.
- Any records (checklists, etc.) necessary to demonstrate consistency with O&M plan

- test reports documenting results of all performance tests. Ves, Copiesia - house

- measurements necessary to determine conditions of performance tests, including measurements

necessary for special compliance tests.

- necessary for special compliance procedures.
- Monitoring records used to demonstrate compliance (date and time data collected) For surface tension, pressure drops, temperatures, etc.
- Specific identification (date, time, commencement and completion) of each period of excess emissions as indicated by monitoring data, that occurs during periods of malfunction and at other times when no malfunctions occurring.
- Total process operating time (for each affected source) during each report period.
- Records of actual cumulative rectifier capacity of hard chrome plating for each month during a reporting period.
- For sources using fume suppressants to comply w/ Std, records of dates & times that fume suppressants are added to electroplating baths or anodizing baths.
- For trivalent decorative chrome electroplating, records of bath components purchased, w/ wetting agent clearly identified as a bath constituent.
- Records demonstrating whether source is meeting requirements for a waiver of recordkeeping or reporting requirements, if source granted a waiver.
- 21. Are you submitting the appropriate reports? (i.e., initial notice, notice of compliance status, notice of performance test, notice of perf. test results, ongoing compliance status for major sources, ongoing compliance status for area sources, reports on trivalent chrome baths).
- 22. Were you aware that the Chrome MACT Standard existed? How and When?

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23. Do you belong to any metal finishing trade associations? Which? Did you ever attend workshops on this Chrome MACT Standard? When? Where? Who sponsored the workshops? Have you ever received any outreach material concerning the Chrome MACT Standard? Who submitted the material?

| IVI | ETAL CLEANING QUESTIONS (Basic SIP Requirements): |
|-----|--|
| 1. | Number of Degreasers (cold and vapor)? $T \omega O$ |
| 2. | Designations of each degreasing unit? N. e he De greaser 225 69//015 |
| | Chrone Pre Cabion 30 69/lons Room Yemp |
| 3. | Type of units (small parts washers, open top vapor, continuous vapor)? |
| | water Based Regreaser (see MSDS sheet for CEE BEE A7X |
| 4. | Capacity of each unit (gallons)? 225 6-9 |
| | 30 6 6 |

- 5. The solvent used in each unit? CEEBEEA7X7
- 6. Is each unit equipped with a cover?
- 7. Is each unit equipped with a refrigerated chiller of carbon adsorber for control? Which? Heated 170°F + Roon Yemp.
- 8. If a carbon adsorber is used, how many carbon beds used? What is the control efficiency and how is it documented? How often are the beds replaced and desorbed?

- 9. Are covers in place over units when not in use?
- 10. Is the solvent recycled?
- 11. How is solvent waste disposed? By whom? Where does it go? Is waste stored in sealed containers while on site?
- 12. Which units are operating during the inspection? Born

MA

- 13. Are parts dried internally until parts stop dripping or for 15 seconds?
- 14. Does each applicable unit have solid spray application?
- 15. Is there conspicuous posting of operating procedures in the vicinity of each unit?
- 16. Are the units equipped with the appropriate safety switches (i.e., condenser flow switch & thermostat-shuts off heat to solvent if condenser coolant not circulating; vapor level control thermostat shut off heat if vapor level rises above primary cooling coils; spray safety switch shuts off spray pump if vapor level drops more than 4 inches from bottom of primary condenser coil; and, low solvent safety switch to shut off heating element if it becomes exposed).
- 17. What is the freeboard ratio (freeboard height/smallest interior dimension of unit)?
- 18. How often is solvent added to each unit? How much normally added? What is the annual usage (either plantwide or for each individual unit)?
- 19. How much degreasing solvent used in calendar year 1997? (Gallons or pounds) Density of solvent?
- 20. How much degreasing solvent manifested out in calendar year 1997? (Gallons or pounds)
- 21. What were your plantwide degreasing solvent emissions to the atmosphere for calendar year 1997? (Pounds) (Fugitive and Stack emissions from Form Rs if applicable).
- 22. Any plans to reduce/eliminate use of VOC solvents thru replacement or process modifications? What? Anything done to date? What? When?

23. What are your anticipated degreasing solvent emissions for 1998? Explain increases or decreases anticipated.

HALOGENATED SOLVENT MACT STANDARD QUESTIONS:

- NA
- 1. Do you use carbon tetrachloride, chloroform, perchloroethylene, 1,1,1 trichloroethane, trichloroethylene or methylene chloride as a metal cleaning/degreasing solvent?
- 2. Did you submit an initial notification to EPA or State for each unit subject to this Standard? When submitted? Ask to see copy. (Initial notice due by following dates: exist = 8/29/95; newly constructed prior to 12/2/94 = 1/31/95; newly constructed after 12/2/94 = ASAP before construction or reconstruction). Exist = commenced construction on or before 11/29/93.
- 3. For each subject metal cleaning unit, when did construction commence (binding contract)? (Existing or new source)? When did you begin operations for each subject unit?
- 4. Capacity of each subject unit? (Exempt if capacity is 2 gallons or less)
- 5. Amount of above listed halogenated solvents used, manifested out and emitted to the atmosphere in calendar year 1997? Anticipated amounts for calendar year 1998? Explain any increases/decreases expected in 1998.

6. What method of compliance have you chosen (control combination, emission idling or alternative standards? If control combination or emission idling are used to comply, are you meeting the minimum equipment design and complying with the required work practices? Are

you complying with the more specific requirements for control combination or emission idling? Are you complying with the alternative standard? Document compliance!! (Compliance required as of 12/2/97 for existing units and immediately upon start up for new units).

- 7. What is the solvent/air interface area of each open top degreasing unit? (Note if control combination is the method used to comply with standard, different options are available depending on whether this area is above or below 13 square feet).
- 8. Were you aware that the Halogenated MACT standards existed? How and when?
- 9. Do you belong to any metal finishing trade associations? Which? Did you ever attend workshops on the Halogenated Solvent MACT Standard? When? Where? Who sponsored the workshops? Have you ever received any outreach material concerning the Halogenated MACT Standard? When? Who sent the material?

10. Initial Statement of Compliance due by 5/1/98 for existing units and within 150 days of start up for new units. Have you been required to submit one of these notices yet? Have you submitted the notice? When? Ask to see copy.

BOILER QUESTIONS:

1- Johnson 125HP RGG 1- Bornham 40HP (Backup) 5 000 Mm BIU/hr 1. 7 mm BIU/hr Johnson, Burnham 1. Number of boilers?

2. Designations of each boiler?

3. Manufacturer of each boiler?

- 4. Do the boilers run on natural gas or fuel oil or both? If oil, what number fuel oil used?

- 6. Which boilers operating during inspection? 125 HP & 440
- 7. How many boilers normally operate in the summer and winter?

One the 125 HD Winter periodically 40 H.P. W/ 175 HP.

- 8. Ask for 1997 annual fuel usage of each fuel burned in the boilers. $26~m~m~ft^{-3}$
- 9. Do you have permits or registrations for each boiler? Which?
- 10. Any operating restrictions for boilers? If yes, what? Are the restrictions from a permit? Are you complying with the restrictions?
- 11. When was each boiler installed? (month/year)
- 12. What is the maximum heat input to each boiler? (mmbtu/hr)
- 13. Are any of the boilers subject to NSPS Subpart Dc for small heat generating units? Which ones? Are you complying with the notification, reporting, and testing requirements? (Note any boiler that commenced construction after 6/9/89 and is between 10 and 100 mmbtu/hr maximum design heat input capacity is subject to this Subpart).
- 14. What is the sulfur content limit you are restricted to using? (% sulfur by weight)
 - (1.5°%
- 15. What is the actual sulfur content of the fuel oil you are using? (% sulfur by weight) Get a copy of the most recent fuel supplier certification!
- 16. Is each boiler equipped with opacity monitors? Are they working properly check!



17. Do you have O2 or CO2 monitors for each boiler?

18. Do you see any opacity emanating from any of the boiler stacks? Or from other process equipment? If yes, do a Method 9 test if opacity appears to be over 20%? Results on opacity readings? Is source in compliance with the opacity limit? (20 % opacity is the normal limit

allowed).

- 19. What is the steam production from each boiler? (Lb/hr)
- 20. What is steam used for? (Building heat, process heat or both if for process, what processes)
- 21. What % of maximum design capacity do you normally operate boilers at? (%)
- 22. Do you burn any waste oil? If so, how much a year? Any restrictions? What? From permit? Are you complying?

MISCELLANEOUS METAL PARTS & PRODUCTS COATING OUESTIONS:

1. What types of products are coated?

metal Ferrous Alloys SS. - Nichel Alloy - PLAlloys

2. What substrates are coated? (see Ahone)

3. How many booths/dip tanks plantwide used for MMP&P coating?

Maskag - 323

Tolvere when to the series to the se

- 4. Designations of each booth/tank?
- 5. Applicability (varies from state to state). (MA Have you ever emitted more than 1 ton of VOCs in any one month or more than 10 tons in any consecutive 12 month period - before control equipment?) (RI and CT - Have you ever emitted more than 15 pounds of VOC per day, plantwide, from all MMP&P coating operations?) Some states allow use of up to 55 gallons of noncompliant coatings per year.

= 50 gallon/year masking

6. How many coatings used plantwide for MMP&P coating? What are the designations of each? Ask for a spreadsheet, if available, of the coating designation and formulation data of each (i.e. VOC content as applied, % solids by volume, etc.).

2 - stop off 323 ms Ds sheets X-P 7000

| 7. How many and which coatings run on each booth/tank? Are any or all interchangeable? | |
|---|-----|
| 8. Type of coatings? (Clear, air dried, extreme performance, other) 9. Are the coatings considered lacquers, epoxies, enamels, urethanes, acrylics? | |
| 10. Which coating has the highest "as applied" VOC content? Designation? VOC Content as applied = Lb VOC/gal ctg - water and exempt solvents X-P 2000 | ear |
| X-P 2000 Stop 0 € 323 60 - 80% VOC 5 11. What is the percent reduction required for your worst case/highest VOC content coating? Only applicable if control equipment is used. Is the percent reduction a permit requirement? | |
| | |
| 12. How are coatings dried? At what temperatures? If ovens used, are they run at temperatures exceeding 194 F? Are coatings classified as clear or extreme performance? Which ones? Room Temporature Ambient Air Fuggitive Emission 13. If ovens are used, how many are there? Operating temperature of each? Number of drying zones? Which ovens are for which booths/tanks? | V/A |
| 14. How many spray guns used in each booth (simultaneously)? | |
| 15. Type of spray guns used in each booth? | |
| 16. Number of vents per booth/tank? | |
| 17. What is the operating pressure at the nozzle for each spray gun? | |

18. What is the transfer efficiency of each booth? 19. What is the air flow thru each booth? (Ft/min) 20. Which booths and tanks are being used during the inspection? Which coatings are being applied in each booth/tank and what products being coated on each? 21. What year was each booth/tank installed? When did each begin operations? 22. What are the operating hours of each booth/tank? Number of shifts? Hr/day; Day/wk; Wk/yr 23. What is the downtime of each booth/tank? 24. Is any control equipment used to control particulate and VOC emissions vented to the atmosphere? What? (Dry filters or water walls for PT and incinerators or carbon adsorbers for VOC). 25. If an incinerator or carbon adsorber is used, when was it installed? When did it start up? 26. Has the control equipment been stack tested? If yes, when? If not, why and is a test scheduled? 27. Who conducted the stack test?

28. Did EPA or State observe test?

- 29. What was the average destruction efficiency? (%)
- 30. What was the average capture efficiency? (%)
- 31. What was the average overall control efficiency) (%) Was it enough to give minimum % reduction required for worst case coating?
- 32. Was compliance achieved?
- 33. Get a copy of the test report sumary page verifying compliance!
- 34. Are all booths/tanks hooked to the control device? If no, which booths/tanks are and which are not? Are booths that are not hooked up to the control device complying with the emission limits (4.3 lb VOC/gal ctg for clear coatings; 3.5 lb VOC/per gal ctg for air dried and extreme performance coatings; and, 3.0 lb VOC/gal ctg for all other coatings).
- 35. Get incinerator or carbon adsorber operating parameters:

Incinerator:

N/A

- combustion temp
- stack temperature (outlet)
- shutdown alarm high and low setpoints
- % O2
- retention time

Carbon Adsorber:



- pressure drop across the beds
- VOC outlet concentration
- 36. Do you maintain coating usage logs? If yes, what frequency (daily, weekly, monthly)?
- 37. Can all booths/tanks operate simultaneously?

N/A

- 38. How many booths/tanks normally operate at one time?
- 39. Are solvents added to the coatings? If so, what solvent? Is this added solvent included in the calculation to determine % reduction required or to determine the "as applied" VOC content of coating?
- 40. Do you use cleaning solvents to clean spray guns, etc.? Do you include this amount when determining applicability to the MMP&P regulation? Are emissions from this cleaning solvent accounted for in your 1997 annual emissions report? Is cleaning solvent recycled? Density of cleaning solvent (lb/gal)?
- 41. What were your 1997 plantwide VOC emissions from MMP&P operations? (lbs/tons)
- 42. What do you anticipate your 1998 plantwide VOC emissions from MMP&P to be? (lbs/tons) Explain increases or decreases from 1997.
- 43. Have you looked into reformulation of your coatings? How many and which coatings have already been reformulated to compliant coatings? When?
- 44. How many gallons of coating used per day plantwide for MMP&P coating?

 Average = Maximum =
- 45. What percentage of parts coated are metal substrates?
- 46. Which booths/tanks are used solely to coat non-metal parts? What types of substrates coated in these booths/tanks (glass, plastic, wood, etc.)?

47. What are your annual VOC emissions from the coating of non-metal parts such as plastic, wood or glass? Does a RACT regulation apply (CTG or non-CTG)? What does RACT require? Are you complying?

NA

BUFFING/GRINDING/SANDBLASTING QUESTIONS:

1. Have you any buffing, grinding or sandblasting operations at this facility? If yes, what and how many pieces of equipment do each type of work?

1 - Sand Blasting Rmn Maintenance Shop 2- Alos Cabinets (161ass boads)

2. Are these operations controlled? By what? How many control units? Which operations are controlled and which are not?

Small Cyclones for Cabinets
On by maintanant Nichel Rm material
on £100rtdustin Room. Material
disposed as hazardous waste from
potential pot Lead contamination.

- 3. Do you observe any opacity or fugitive emissions? From where? Explain. Do a method 9 if applicable. $\mathcal{N}_{\mathcal{O}}$
- 4. What type of parts are buffed, grinded or sandblasted?

metal parts

Sand Blast Room to Bag house

EPA NEW ENGLAND MULTI-MEDIA CHECKLIST

| | ral Information |
|-------|---|
| Inspe | ector: Date: |
| Faci | lity Name: Superior Plating Contact: |
| Addr | SSS: (STREET) (CITY) (STATE) (ZIP) |
| Phone | e No.: (SIC Code: No. Employees: |
| Produ | ucts mfd. and description of facility: |
| Air: | Stationary Source Compliance |
| 1.0 | Did you observe opaque smoke emitted from a smokestack (dark enough to obscure anything behind the plume? If yes - Which process line (be specific, i.e., boiler No. 4)? Air pollution control equipment out of service? If yes - When will it be back on line? |
| | Did you smell any strong odors? If yes, from what process? What chemicals (i.e., solvents) were causing the odors? Is the process controlled by air pollution control equipment? Has the facility added any processes or expanded any pre-existing processes in the last two years which emit air pollutants? If yes, what type of process was added? Did the facility obtain a state air permit? |
| 4.1 | a) Has the facility undergone any demolitions within the last 18 months? |
| | b) Has the facility removed any asbestos from any facility components (pipes, boilers, ducts, etc.) within the past 18 months If yes - Approx. how many square feet or linear feet? [Units should be expressed in terms of feet for pipe (length) and square feet for all other facility components (area)] |
| | If either 4.a or 4.b were "yes" - answer the following: c) Was notification for the project provided to EPA or any other regulatory agency? Name and address of any contractors involved: |

| Air: | Mobile Source Compliance |
|-------|---|
| 1.0 | Does the facility dispense fuels (gasoline or diesel) on- site? Gasoline? gallons. Diesel? gallons. If observable, is the diesel clear or red in |
| | color? |
| 2.1 | Does the facility repair vehicles on-site? Fork Lift Does the facility repair catalytic converters in-house? Do they have a standard procedure? If not, where do they send the vehicles for catalytic converter repair? |
| 3.I | Are auto air conditioners repaired or recharged on-site? If so, does the facility have recovery and/or recycling equipment? Are the technicians who perform repairs certified by an EPA-approved program? If work is done off-site, what is the name and location of the facility? |
| EPCRA | A (Chem. Inventory) |
| | Has the facility experienced any accidental releases above the Reportable Quantity (RQ) within the last three years? |
| 2.I | If yes, provide the name of the chemical released, the quantity and the date. |
| 3.1 | Does the facility have on-site at any time during the calendar year a) 10,000 lbs or more of any hazardous chemical requiring an MSDS or b) a threshold reporting quantity of a listed Extremely Hazardous Substances (EHS). **The Acid (000 gall 1994) |
| 4.I | If yes, have Tier II chemical inventory forms been filed annually with the fire department and local planning authorities? |
| EPCRA | A Section 313 (Toxic Release Inventory) |
| 1.I | Does the facility manufacture, process, or use any toxic chemicals in a quantity greater than 10,000 lbs per year? |

2

Has the facility submitted any toxic chemical release forms (Form R) to EPA? Yes, sent EPA Rogi by Disk

FIFRA

| 1.1 | Does the facility manufacture, distribute, repackage, relabel, store or use pesticides? (Product which would be considered pesticides include disinfectants, sterilizers, germicides, algicides, virucides, swimming pool compounds, insecticides, fungicides, herbicides, etc.) |
|------|--|
| 2.1 | If yes, does the label bear an EPA registration and establishment number? |
| RCRA | |
| 1.1 | Does the facility generate or otherwise handle hazardous waste? If so, describe the types of hazardous waste generated/handled, and state whether it is generated on-site or received from off-site. |
| | |
| 2.OP | Do you see any waste stored in containers, drums, tanks, pails, or dumpsters? Note the approximate quantity of waste, and its location. |
| | |
| 3.OP | Are there any containers or tanks of hazardous waste that are open or in poor condition (leaking, corroded, etc.)? If so, describe waste (e.g., liquid, sludge, etc.), indicate markings on containers/tanks and the container/tank location(s). |
| | |
| 4.OP | Is there any evidence of spills or leaks or dumping to the ground, pits or lagoons? If so, note location and extent of release. Spills from Plating Imes |
| 5.1 | Does the facility operate a boiler or industrial furnace? Has there been any incineration of hazardous waste on-site? If so, what type of hazardous waste, and is this an ongoing operation? |
| | |

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|---|---|---|---|
| o | r | L | L |

| | below ground? |
|------|---|
| | tank or more than 1320 gallons in a number of tanks above ground or more than 42,000 gallons below ground - Does the |
| | facility have a certified SPCC (Spill Prevention, Control, |
| | and Countermeasure) plan signed by a P.E.? |
| maa. | |
| TSCA | PCB |
| 1.01 | Is there any evidence of liquid-filled electrical equipment-that may contain PCBs? Yes: No: |
| | If "yes", describe type of equipment: |
| | |
| 2 TD | If the above equipment is considered to centain DCDs what |
| 2.11 | If the above equipment is considered to contain PCBs, what was the basis for this determination: |
| | based on- marking with "Large PCB Mark"? Yes: No: |
| | based on- equipment Nameplate? Yes: No: |
| | based on- information from facility rep.? Yes: No: |
| 3.OP | Is there any evidence of spills or leaks from transformers, capacitors, or other liquid-filled electrical equipment that may contain PCBs? Yes: No: |
| | If "yes", describe type of equipment and spill or leak: |
| | |
| | |
| 4.OP | Are there any PCB items (equipment, drums of waste or other containers) in storage for disposal? Yes: No: |
| 5.I | Where are these items being stored and what is their condition? |
| | |
| | |
| | |

| maaa | A |
|------|------|
| TSCA | Core |

| 1. | I | Does the facility manufacture (synthesize anew) any chemical substances in any amount? If so, in simple terms, what chemical(s) do they make? | |
|-----------|-------------|--|-----------|
| 2.: | Ι | Does the facility import any chemical substances into the United States? (Company is "Importer of Record") | |
| US' | r | | |
| | | Does the facility store in USTs motor fuels, waste oils, and/or hazardous substances? (Note: USTs containing heating fuels for on-site heating purposes are exempted from RCRA UST.) | |
| Ιf | Ye | s, ask: | 2 |
| 2.3 | Ι | purposes are exempted from RCRA UST.) ss, ask: Are the USTs registered with the state? (Each state keeps notification data for USTs) YES NO | of the Re |
| | | Is some form of leak detection in use for the UST system's tank and associated piping)?YESNO | |
| 4.3 | T. | Are records available showing registration and monthly leak detection along with the yearly UST system tightness test?YESNO | |
| | | | |
| Wat | cei | | |
| | | RECT (NPDES) & INDIRECT (PRETREATMENT) DISCHARGERS | |
| Α. | D] | RECT (NPDES) & INDIRECT (PRETREATMENT) DISCHARGERS Has the facility expanded its production, wastewater flow or changed its processes since its last permit? Did you observe any outfalls? If so, was there | |
| <u>A.</u> | D] | RECT (NPDES) & INDIRECT (PRETREATMENT) DISCHARGERS Has the facility expanded its production, wastewater flow or changed its processes since its last permit? Did you observe any outfalls? If so, was there any discoloration, steam, oil sheen, or odor? Does the facility use water in its manufacturing processes? | |
| <u>A.</u> | D] | Has the facility expanded its production, wastewater flow or changed its processes since its last permit? | |
| <u>A.</u> | I O P | Has the facility expanded its production, wastewater flow or changed its processes since its last permit? | |
| A. 1. | D] I O P I | Has the facility expanded its production, wastewater flow or changed its processes since its last permit? | |

| 3 | (c) | Where do the floor drains discharge (1. treatment facility, 2. municipal sewer, 3. subsurface system, 4. storm drain or 5. surface water)? |
|-------------|-------------------------|--|
| OP | waste a) Is maint | the facility treat its process and/or sanitary ewater prior to discharge? |
| <u>B. S</u> | TORM V | NATER Storm Water Dischange Perm. |
| 1. c | the pala Is | chere catch basins, drains, culverts, ditches, etc. on property intended to convey storm water If yes is the storm water conveyed to a (1)treatment facility, ombined sewer, (3)separate storm sewer, (4) separate cary sewer, or (5) surface water? |
| | the d | the storm water discharges covered by a permit or has discharger applied for a permit? |
| 3. 0 | tarps preci b) Ar | materials stored outside? |
| UIC | 1 | O^ |
| 1.1 | or dr for t (See | this facility discharge any fluids to drains, plumbing, rainage systems connected to UIC wells that are designed the subsurface emplacement of fluids INTO the ground? UIC well types and fluid types below.) No: |
| 2.1 | If ye | es, indicate fluid type(s) and UIC well type(s) below. |
| 3.1 | autho | this facility have a federal, state, or local permit rizing the underground injection system(s)? No: |
| 4.I | other Yes: | reated sewage effluent is discharged below ground, are fluid types disposed of in the sewage waste stream? No: No: is, indicate other fluid types disposed. |

Wetlands

1.0 Within view, are there a) streams, ponds or other water bodies; b) vegetated areas with standing water; or c) areas with mucky, peaty or saturated (squishy) soils? If yes, have any of these areas been disturbed by waste/refuse disposal, storage of materials, ditching, or filling? If yes, briefly describe:

2.I If yes to both "Observable" questions, does facility have a federal CWA section 404 permit, or any state or local permit authorizing the activity (ies) observed?

Pollution Prevention (Optional)

1.I Does your facility have a pollution prevention, toxics use reduction, or RCRA waste minimization program?

Would you be interested in finding out more about pollution prevention techniques?

Take a look at this brochure, and feel free to call any of the EPA, state or other staff listed for more information.

CODES

O - OBSERVABLE P - PROCESS I - INTERVIEW

SEW

SEE

| ADDITIONAL CO | MMENTS | | | |
|---|-----------------|----------|-----------|--|
| | | | | |
| CONCLUSION | | | | |
| | | | | |
| | | | | |
| RECOMMENDATIO | N FOR FOLLOW-UP | | | |
| | | | | |
| | | | | |
| Forwarded to | Contact | Phone | Mail Code | |
| Air EPCRA 313/ | Fred Weeks | 565-4071 | SEA | |
| TSCA Core | | 565-3250 | SEA | |
| EPCRA (CHEM) Don Mackie 565-2159 | | | SEA | |
| FIFRA Cindy Brown/Wayne Toland 565-3264 | | | | |
| RCRA | Suzanne Parent | 565-3321 | SER | |
| SPCC | Don Grant | 565-3280 | SEW | |
| TSCA PCB | Abdi Mohamoud | 565-9168 | SEA | |
| UST | Bill Torrey | 573-9604 | HBO | |

This is a pre-decisional document protected by the deliberative process privilege. Conclusions or recommendations are intended solely as preliminary information for government personnel. This form contains tentative conclusions and staff-level recommendations and does not create any rights, substantive or procedural, or defenses, as they are not binding on the Agency.

565-9112

565-9081

Joan Serra

Kyla Bennett

WATER

WETLANDS

ADDENDUM ON WHEN TO REFER

AIR

Question 1: Refer the checklist any time you observe opaque smoke from the facility's stack. Excess opacity may be a sign of operational problems or that the facility is not operating according to design specifications and/or air pollution permit requirements.

Question 2: Refer the checklist anytime you sense odors from a process. The facility may be having trouble with its air pollution capture and/or destruction equipment or may not be following good engineering work practices.

Question 3: Refer the checklist if a facility has not obtained a state air permit for a new process or piece of air pollution control equipment (EPA no longer writes air permits). Not all installations require a permit. Therefore, the air program will follow-up to determine if the new device required a permit.

Question 4: Refer the checklist if the facility answers yes to either 4.a or 4.b. Federal regulations require that EPA be notified of 1) stripping more than 160 square feet or 260 linear feet of asbestos materials from a facility; or 2) any demolition operations. Region I maintains a database which it uses to determine if a facility has complied.

EPCRA (Chem. Inventory)

- a) NO to questions 1 -- No referral (question 2 requires no answer)
- b) YES to question 1 -- refer (question 2 must be completed)
- c) NO to question 3 -- No referral (question 3 requires no answer)
- d) YES to question 3 -- refer (question 4 must be completed)

EPCRA Section 313 (Toxic Release Inventory)

If answer to 1. is yes, please refer.

FIFRA

If Question 2 is No; refer to Pesticide Section.

RCRA

- (O) Answers to questions 3 or 4 are YES.
- (P) Answer to questions 3 or 4 are YES.

(I) Answer to question 1 is that hazardous waste are received from off-site. (Acceptance of hazardous waste from off-site may indicate that a facility is an illegal TSDF.)

Answer to question 5 indicates that hazardous waste is burned on-site. (If waste oils alone are burned on-site, do not refer the checklist to RCRA.)

SPCC

If the answer to Question 2 is No refer to SPCC Program.

TSCA PCB

If the answers to questions 2 or 3 are "yes," please refer to the TSCA PCB Program.

TSCA CORE

If the answer to 1 or 2 is yes refer to TSCA.

UST

If the answer to Question 1 is yes and the answer(s) to any of questions 2,3, or 4 is/are no, please notify the OUST or send the office a copy of the checklist.

WATER

If the answer to

A.1 is YES, refer to Water
A.2.b. is NO, refer to Water
A.3.c. is either 2, 3, or 4, refer to Water
A.4 is NO, refer to Water
B.1.a is either 3 or 4, refer to Water
B.2 is NO, refer to Water
B.3.a.2 is Yes, refer to Water
B.3.b is NO, refer to Water

WETLANDS

If "yes" to both Observable questions and "no" to Interview question (or facility cannot produce federal CWA section 404 permit), refer checklist to EPA Wetlands Program contact.

ACRONYMS

AIR

AFS: AIRS Facility Subsystem (EPA's air compliance database)

AIRS: Aerometric Information Retrieval System

BACT: Best Available Control Technology

CAA: Clean Air Act

CAAA: Clean Air Act Amendments

CEM/CEMS: Continuous Emission Monitoring/System

CFC: Chlorofluorocarbon

EER: Excess Emission Report HAP: Hazardous Air Pollutant HON: Hazardous Organic NESHAP

LAER: Lowest Achievable Emission Rate

NAAQS: National Ambient Air Quality Standards

NARS: National Asbestos-Contractor Registry System

NESHAPS: National Emission Standards for Hazardous Air Pollutants

NSPS: New Source Performance Standards
NSR: New Source (Pre-construction) Review

PM: Particulate Matter

RACT: Reasonably Available Control Technology

SIP: State Implementation Plan

VE: Visible Emissions

VOC: Volatile Organic Compounds

EPCRA

EPCRA: Emergency Planning and Community Right-to-Know Act

LEPC: Local Emergency Planning Committee SERC: State Emergency Response Commission

TRI: Toxic Release Inventory

FIFRA

FIFRA - Federal Insecticide, Fungicide, and Rodenticide Act, as Amended

EPA Reg. No. - EPA Registration Number (one for each pesticide)

EPA Reg. No. - EPA Registration Number (one for each pesticide)

EPA Est. No. - EPA Establishment Number (where a pesticide is manufactured)

RCRA

RCRA - Resource Conservation & Recovery Act

HSWA - Hazardous and Solid Waste Amendments

TCLP - Toxicity Characteristic Leaching Procedure

LDR or Land Ban - The Land Disposal Restrictions

TSDF - Treatment, Storage and Disposal Facility

LQG - Large Quantity Generator SQG - Small Quantity Generator

BIF - Boiler and Industrial Furnace

UIC

TSCA/PCBs

TSCA - Toxic Substances Control Act PCBs - Polychlorinated biphenyls ML - Large PCB Mark

UST

UST - Underground Storage Tanks
OUST - Office of UST

UIC

| | | Well Type |
|--|---|--|
| <pre>* liquid wastes * process wastewater * non process wastewater * non contact cooling water</pre> | * stormwater, washwater and/or spill drainage from - maintenance areas - hazardous material | <pre>* well * leach field * leaching</pre> |
| * heat pump or air conditioning fluids * untreated sewage effluent * treated sewage | or hazardous waste storage, staging or handling areas process or manufacturing areas | |
| effluent from a other treatment septic system | - fuel storage are plant or - other are tible to hazardous substance release | |

Fluid Type

WETLAND

CWA - Clean Water Act

404 - specific section of the CWA regulating the discharge of dredged or fill material into waters of the U.S., including wetlands.

METAL FINISHING INSPECTION CHECKLIST March 24, 1998 Owner Dohn Raymond

| Owner John Ka | 7.010 | |
|--|--|---|
| Inspector Name: S Calde | Inspection Date: | Time: |
| Facility Name: Superior Pla | 4.14 | |
| | South Port CT | |
| | Vra 220Telephone No.: 20 | |
| Inspection Attendees: | | |
| Credentials Presented To: Richa | od Durgzt | |
| GENERAL QUESTIONS: | | |
| 1. What do you manufacture at this faci Aerospace, To Large, excursion | lity? not t Dye Maker n-rotors, Guni | , Electrolessa Barrels Jobsho, |
| Plant operating hours? | day; 6 day/wk; | 5/ wk/yr Irday |
| 4. No. of employees? 7 | | |
| 5. Are you currently under a state order If yes, for what? What document number with the conditions of the document? \(\lambdo \text{VO.U.} - \frac{4}{9} \) | er? When was the document iss | t decree for air concerns? sued? Are you complying |
| 6. Any recent additions/modifications a obtained? | t the facility? What? If yes, we House \$900 K | + |
| 7. Any future additions/modifications p | lanned? What? May require pe | ermits!! |

| 8. Do you have all permits/source registrations required? If no, why not? What equipment not permitted as required? When do you expect to get the proper permits? What are the potential emissions from each piece of equipment that still needs a permit? Natural Gag - Notes Used Out of the proper permits? What are the potential emissions from each piece of equipment that still needs a permit? Natural Gag - Notes Used Out of the proper permits? What are the potential emissions from each piece of equipment that still needs a permit? Natural Gag - Notes Used Out of the proper permits? What are the potential emissions from each piece of equipment of the proper permits? Natural Gag - Notes Used Out of the proper permits? What are the potential emissions from each piece of equipment that still needs a permit? Natural Gag - Notes Used Notes Used Out of the proper permits? What are the potential emissions from each piece of equipment of the proper permits? Natural Gag - Notes Used Natural G |
|--|
| 10. Actual plantwide emissions for 1997 (i.e., VOC, Nox, chrome, other HAPs)? 11. Anticipated plantwide emissions for 1998 (i.e., VOC, Nox, chrome, other HAPs)? If significantly different from 1997 explain increase or decrease? 12. Potential plantwide emissions of VOCs, NOX, chrome, other HAPs? 25 Gallow agruer the many agreements of the plantwide emissions of VOCs, NOX, chrome, other HAPs? |
| 1. Do you currently have hard and/or decorative chrome electroplating operations or chrome anodizing operations at this facility? If so, how many tanks (with designations) do you maintain for each type of operation listed above? |
| 2. When did each operation identified in Question 1 above start up operations (month/yr)? Existing or new source (existing source = constructed on or before $12/16/93$). |
| 3. Are your using trivalent or hexavalent chrome in your plating/anodizing bath solutions? Hex-Hord Choo 4. Has chrome emission testing been done? When? Did EPA or State observe test? Was testing done according to the reference test method? Was compliance verified? Obtain a copy of the summary page of the final test report, which includes test results. Testing due as follows: exist hard/anodizing = by 7/25/97; exist decorative = 7/25/96; new between 12/16/93 and 1/25/95 = 7/25/95; new after 1/25/95 = test w/i 180 days of start up. Are Tox Defended 5 years for Title I |

5. Was an initial notice on your chrome plating/anodizing operations submitted to EPA or the State? On what date submitted (required by 7/25/95 for existing operations and simultaneously with notice of construction if new operation on or before 1/25/95 and within 30 days of commencement of construction for new operation after 1/25/95)? Ask to see a copy.

7/21/95 Le Her

- 6. Was a notification of compliance status submitted? When? (Due by: if no testing required exist hard/anodizing = 2/24/97; exist decorative = 2/24/96; new 12/16/93 to 1/25/95 = 2/24/95; new after 1/25/95 = w/i 30 days of start up; if testing required submit notice w/i 90 days of test completion). Ask to see a copy. (Compliance dates are as follows: exist hard/anodizing = 1/25/97; exist decorative = 1/25/96; newly installed between 12/16/93 and 1/25/95 = 1/25/95; new after 1/25/95 = upon startup).
- 7. Do you have an Operation and Maintenance plan in place? When implemented? (Due by: exist hard/anodizing = 1/25/97; exist decorative = 1/25/96; new = implement upon start up).

7/7/97 - Feb 97 - 1/25/97

- 8. Are you using a fume suppressant with a wetting agent to comply with the Chrome MACT Std. (applicable for decorative and anodizing operations only)? Also, a decorative plating operation using trivalent chromium and a wetting agent only needs to comply with certain recordkeeping (records of the bath components indicating clearly that a wetting agent is a component of the bath) and reporting requirements (see Section 63.347(i)).
- 9. If complying by use of a fume suppressant, are you monitoring and recording the plating bath surface tension and at the appropriate frequency? (Frequency is as follows: every 4 hours for the first 40 hours of tank operation; every 8 hours for the next 40 hours of tank operation; every 40 hours of tank operation thereafter until an exceedance occurs then resume more frequent monitoring as described above Also, once a chrome bath solution is drained and replaced with a new bath the more frequent monitoring is required as described above). Ask to see the log book of surface tension measurements.
- 10. If complying by use of a fume suppressant, are you maintaining the plating bath surface tension below 45 dynes/cm? (Based on review of log). If company has exceeded the surface tension limit, note how often the occurrences happen, the value of each exceedance and the duration of each exceedance. Once you observed an exceedance did you implement your O&M plan right away? Did you revert back to more frequent monitoring?

| 11. What are you using to measure the plating bath surface tension? (i.e., stalagmometer or tensiometer)? Has the instrument been calibrated? How often and when is the instrument calibrated? Is this part of the O&M plan? **Mathematical Company of the O&M plan of the O& |
|--|
| 12. Ask the facility representative to make a plating bath surface tension measurement during the inspection, if possible and applicable. (Note the measurement). |
| 13. If complying through means of an emission test, ask when testing was last done and for results of this and any other tests performed. (Outlet chromium concentration emission limit is as follows: new or existing anodizing and decorative = .01 mg/dscm; existing large hard chrome and all new hard chrome = .015 mg/dscm; existing small hard chrome = .03 mg/dscm) - Note small hard chrome defined as being below 60 million amp-hr/yr maximum potential cumulative rectifier capacity. |
| 14. What is the facility's maximum cumulative potential rectifier capacity (amp-hr/yr)? (for hard) (Calculated as: plantwide amperes at facility for hard chrome tank rectifiers x 8400 hrs x 0.7) 15. For each chromeplating operation, how long are the plating times on average? (hr/min) 25 Effectives 16. For each chromeplating operation, what is the typical plating thickness? (microns) |
| 17. When did you cease operation of any chromeplating or anodizing operations at this facility? Provide dates (month/yr). |
| 18. What are you using to control chromium emissions? DZ- ActoYord 10'x10' Dry Box + 6ne 75HD Ac misters 4 misters 4 twin 25hP to 6-8 inch perf. Her bed |

19. Are you monitoring control and/or process equipment parameters? Which ones? What is used to measure or monitor each parameter? What are the inspection and monitoring frequencies? Are these found in your O&M plan? (Look at records/logs).

\[\times P = \int \text{...} \]

\[\text{fer nedig Aress} \]

\[\text{140.3 months} \]

\[\text{constant} \]

20. Are the appropriate records being kept to ensure compliance? Maintained for 5 years? Records required are based in part on compliance method used. Records required are as follows:

| O Chevice # 14 2 | |
|---|----|
| Stack #3 #2 | |
| - Inspection records for monitoring and control device equipment - when inspected, working | |
| condition of device during inspection, actions taken to correct deficiencies of devices. | de |
| - Maintenance records for all affected sources, control devices and monitoring equipment. — | |
| montly-Impact-Baitson Mo | 10 |
| - Malfunction records for control devices, process equipment and monitoring equipment - | |

- Malfunction records for control devices, proce Nove Rout, re Log. occurrences, duration and cause.

- Action taken during malfunction if inconsistent with O&M plan.
- Any records (checklists, etc.) necessary to demonstrate consistency with O&M plan
- test reports documenting results of all performance tests. yes in house
- measurements necessary to determine conditions of performance tests, including measurements necessary for special compliance procedures.
- Monitoring records used to demonstrate compliance (date and time data collected) For surface tension, pressure drops, temperatures, etc.
- Specific identification (date, time, commencement and completion) of each period of excess emissions as indicated by monitoring data, that occurs during periods of malfunction and at other times when no malfunctions occurring.
- Total process operating time (for each affected source) during each report period.
- Records of actual cumulative rectifier capacity of hard chrome plating for each month during a reporting period.
- For sources using fume suppressants to comply w/ Std, records of dates & times that fume suppressants are added to electroplating baths or anodizing baths.
- For trivalent decorative chrome electroplating, records of bath components purchased, w/ wetting agent clearly identified as a bath constituent.
- Records demonstrating whether source is meeting requirements for a waiver of recordkeeping or reporting requirements, if source granted a waiver.
- 21. Are you submitting the appropriate reports? (i.e., initial notice, notice of compliance status, notice of performance test, notice of perf. test results, ongoing compliance status for major sources, ongoing compliance status for area sources, reports on trivalent chrome baths).

22. Were you aware that the Chrome MACT Standard existed? How and When?

Yes Indeed Notice sent 7/21/95

| 23. Do you belong to any metal finishing trade associations? Which? Did you ever attend workshops on this Chrome MACT Standard? When? Where? Who sponsored the workshops? Have you ever received any outreach material concerning the Chrome MACT Standard? Who submitted the material? A Soc. of Metal F. 1154944 A F. 1154944 A Marketing |
|---|
| METAL CLEANING QUESTIONS (Basic SIP Requirements): |
| 1. Number of Degreasers (cold and vapor)? Cold - see m.s. b.s. Room temp. |
| 2. Designations of each degreasing unit? CEEBEE A7X7 Dogreasers I fant CeeBee 3. Type of units (small parts washers, open top vapor, continuous vapor)? 3. Type of units (small parts washers, open top vapor, continuous vapor)? 3. Type of units (small parts washers, open top vapor, continuous vapor)? 3. Type of units (small parts washers, open top vapor, continuous vapor)? |
| 3. Type of units (small parts washers, open top vapor, continuous vapor)? |
| (3069)00 Chone Precision |
| 4. Capacity of each unit (gallons)? |
| 5. The solvent used in each unit? Endsited mixture Propritatory |
| 6. Is each unit equipped with a cover? |
| 7. Is each unit equipped with a refrigerated chiller of carbon adsorber for control? Which? |
| 8. If a carbon adsorber is used, how many carbon beds used? What is the control efficiency and how is it documented? How often are the beds replaced and desorbed? |
| 9. Are covers in place over units when not in use? |
| 10. Is the solvent recycled? |
| 11. How is solvent waste disposed? By whom? Where does it go? Is waste stored in sealed containers while on site? |
| 12. Which units are operating during the inspection? |

| 13. Are parts dried internally until parts stop dripping or for 15 seconds? |
|---|
| 14. Does each applicable unit have solid spray application? |
| 15. Is there conspicuous posting of operating procedures in the vicinity of each unit? |
| 16. Are the units equipped with the appropriate safety switches (i.e., condenser flow switch & thermostat-shuts off heat to solvent if condenser coolant not circulating; vapor level control thermostat - shut off heat if vapor level rises above primary cooling coils; spray safety switch - shuts off spray pump if vapor level drops more than 4 inches from bottom of primary condenser coil; and, low solvent safety switch - to shut off heating element if it becomes exposed). |
| 17. What is the freeboard ratio (freeboard height/smallest interior dimension of unit)? |
| 18. How often is solvent added to each unit? How much normally added? What is the annual usage (either plantwide or for each individual unit)? |
| 19. How much degreasing solvent used in calendar year 1997? (Gallons or pounds) Density of solvent? |
| 20. How much degreasing solvent manifested out in calendar year 1997? (Gallons or pounds) |
| 21. What were your plantwide degreasing solvent emissions to the atmosphere for calendar year 1997? (Pounds) (Fugitive and Stack emissions from Form Rs if applicable). |
| 22. Any plans to reduce/eliminate use of VOC solvents thru replacement or process modifications? What? Anything done to date? What? When? |
| |

| 23. What are your a | anticipated | degreasing | solvent | emissions | for 1998? | Explain i | ncreases or |
|----------------------|-------------|------------|---------|-----------|-----------|-----------|-------------|
| decreases anticipate | ed. | | | | | | |

HALOGENATED SOLVENT MACT STANDARD QUESTIONS:

- 1. Do you use carbon tetrachloride, chloroform, perchloroethylene, 1,1,1 trichloroethane, trichloroethylene or methylene chloride as a metal cleaning/degreasing solvent?
- 2. Did you submit an initial notification to EPA or State for each unit subject to this Standard? When submitted? Ask to see copy. (Initial notice due by following dates: exist = 8/29/95; newly constructed prior to 12/2/94 = 1/31/95; newly constructed after 12/2/94 = ASAP before construction or reconstruction). Exist = commenced construction on or before 11/29/93.
- 3. For each subject metal cleaning unit, when did construction commence (binding contract)? (Existing or new source)? When did you begin operations for each subject unit?
- 4. Capacity of each subject unit? (Exempt if capacity is 2 gallons or less)
- 5. Amount of above listed halogenated solvents used, manifested out and emitted to the atmosphere in calendar year 1997? Anticipated amounts for calendar year 1998? Explain any increases/decreases expected in 1998.

6. What method of compliance have you chosen (control combination, emission idling or alternative standards? If control combination or emission idling are used to comply, are you meeting the minimum equipment design and complying with the required work practices? Are

you complying with the more specific requirements for control combination or emission idling? Are you complying with the alternative standard? Document compliance!! (Compliance required as of 12/2/97 for existing units and immediately upon start up for new units).

- 7. What is the solvent/air interface area of each open top degreasing unit? (Note if control combination is the method used to comply with standard, different options are available depending on whether this area is above or below 13 square feet).
- 8. Were you aware that the Halogenated MACT standards existed? How and when?
- 9. Do you belong to any metal finishing trade associations? Which? Did you ever attend workshops on the Halogenated Solvent MACT Standard? When? Where? Who sponsored the workshops? Have you ever received any outreach material concerning the Halogenated MACT Standard? When? Who sent the material?
- 10. Initial Statement of Compliance due by 5/1/98 for existing units and within 150 days of start up for new units. Have you been required to submit one of these notices yet? Have you submitted the notice? When? Ask to see copy.

| 1. Number of boilers? 1— Back Up 2000 40 HP Bunham NO |
|--|
| 1. Number of boilers? 1 - Back Up 2000 40 HP Bunham NO |
| 2. Designations of each boiler? 5000 mm BTU/HR |
| 2. Designations of each boiler? 5000 mm stuff? 1.7 mm stuff? 3. Manufacturer of each boiler? may 1998 3 farte I nepected Natural 6-95 |
| 4. Do the boilers run on natural gas or fuel oil or both? If oil, what number fuel oil used? |
| 5. Do boilers share a common stack or vent separately? 465 - Zff q boul Roof |
| 6 Which boilers operating during inspection? 125 HP |

7. How many boilers normally operate in the summer and winter?

3500 CCF 8. Ask for 1997 annual fuel usage of each fuel burned in the boilers. = ZD MM ff3 126,000 CCF So. Connass 9. Do you have permits or registrations for each boiler? Which? 10. Any operating restrictions for boilers? If yes, what? Are the restrictions from a permit? Are you complying with the restrictions? 11. When was each boiler installed? (month/year) 12. What is the maximum heat input to each boiler? (mmbtu/hr) 13. Are any of the boilers subject to NSPS Subpart Dc for small heat generating units? Which ones? Are you complying with the notification, reporting, and testing requirements? (Note any boiler that commenced construction after 6/9/89 and is between 10 and 100 mmbtu/hr maximum design heat input capacity is subject to this Subpart). 14. What is the sulfur content limit you are restricted to using? (% sulfur by weight) 15. What is the actual sulfur content of the fuel oil you are using? (% sulfur by weight) Get a copy of the most recent fuel supplier certification! 16. Is each boiler equipped with opacity monitors? Are they working properly - check! 17. Do you have O2 or CO2 monitors for each boiler? 18. Do you see any opacity emanating from any of the boiler stacks? Or from other process equipment? If yes, do a Method 9 test if opacity appears to be over 20%? Results on opacity readings? Is source in compliance with the opacity limit? (20 % opacity is the normal limit

- 19. What is the steam production from each boiler? (Lb/hr)
- 20. What is steam used for? (Building heat, process heat or both if for process, what processes)
- 21. What % of maximum design capacity do you normally operate boilers at? (%)
- 22. Do you burn any waste oil? If so, how much a year? Any restrictions? What? From permit? Are you complying?

MISCELLANEOUS METAL PARTS & PRODUCTS COATING QUESTIONS:

metal Ferrous Alloys - Aereospa - Alloys - Aereospa - Sturin inum

St. = Nickeloyed - Ph. Alloys

2. What substrates are coated?

- 3. How many booths/dip tanks plantwide used for MMP&P coating?
- 4. Designations of each booth/tank?

Masking - paint-red stopof-323 (MA - Have you ever emitted mars 1) No Spray both 5. Applicability (varies from state to state). (MA - Have you ever emitted more than 1 ton of VOCs in any one month or more than 10 tons in any consecutive 12 month period - before control equipment?) (RI and CT - Have you ever emitted more than 15 pounds of VOC per day, plantwide, from all MMP&P coating operations?) Some states allow use of up to 55 gallons of 5 Gallons/year noncompliant coatings per year.

6. How many coatings used plantwide for MMP&P coating? What are the designations of each? Ask for a spreadsheet, if available, of the coating designation and formulation data of each (i.e. VOC content as applied, % solids by volume, etc.). AskedforMSDB for Stopoff 323 X-P 2000

| 7. How many and which coatings run on each booth/tank? Are any or all interchangeable? |
|---|
| 8. Type of coatings? (Clear, air dried, extreme performance, other) 9. Are the coatings considered lacquers, epoxies, enamels, urethanes, acrylics? 10. Which coating has the highest "as applied" VOC content? Designation? 10. VOC Content as applied = Lb VOC/gal ctg - water and exempt solvents |
| 11. What is the percent reduction required for your worst case/highest VOC content coating? Only applicable if control equipment is used. Is the percent reduction a permit requirement? |
| 12. How are coatings dried? At what temperatures? If ovens used, are they run at temperatures exceeding 194 F? Are coatings classified as clear or extreme performance? Which ones? |
| 13. If ovens are used, how many are there? Operating temperature of each? Number of drying zones? Which ovens are for which booths/tanks? |
| 14. How many spray guns used in each booth (simultaneously)? |
| 15. Type of spray guns used in each booth? \(\sumsymbol{\infty} \) |
| 16. Number of vents per booth/tank? |
| 17. What is the operating pressure at the nozzle for each spray gun? |

| 18. What is the transfer efficiency of each booth? |
|--|
| 19. What is the air flow thru each booth? (Ft/min) |
| 20. Which booths and tanks are being used during the inspection? Which coatings are being applied in each booth/tank and what products being coated on each? |
| 21. What year was each booth/tank installed? When did each begin operations? |
| 22. What are the operating hours of each booth/tank? Number of shifts? Hr/day; Day/wk; Wk/yr |
| 23. What is the downtime of each booth/tank? |
| 24. Is any control equipment used to control particulate and VOC emissions vented to the atmosphere? What? (Dry filters or water walls for PT and incinerators or carbon adsorbers for VOC). |
| 25. If an incinerator or carbon adsorber is used, when was it installed? When did it start up? |
| 26. Has the control equipment been stack tested? If yes, when? If not, why and is a test scheduled? |
| 27. Who conducted the stack test? |
| 28. Did EPA or State observe test? |

- 29. What was the average destruction efficiency? (%)
- 30. What was the average capture efficiency? (%)
- 31. What was the average overall control efficiency) (%) Was it enough to give minimum % reduction required for worst case coating?
- 32. Was compliance achieved?
- 33. Get a copy of the test report sumary page verifying compliance!
- 34. Are all booths/tanks hooked to the control device? If no, which booths/tanks are and which are not? Are booths that are not hooked up to the control device complying with the emission limits (4.3 lb VOC/gal ctg for clear coatings; 3.5 lb VOC/per gal ctg for air dried and extreme performance coatings; and, 3.0 lb VOC/gal ctg for all other coatings).
- 35. Get incinerator or carbon adsorber operating parameters:

Incinerator:

- combustion temp

- stack temperature (outlet)

- shutdown alarm - high and low setpoints

- % O2

- retention time

Carbon Adsorber:

Acto Carbon Run through

- pressure drop across the beds
- VOC outlet concentration
- 36. Do you maintain coating usage logs? If yes, what frequency (daily, weekly, monthly)?
- 37. Can all booths/tanks operate simultaneously?

- 38. How many booths/tanks normally operate at one time?
- 39. Are solvents added to the coatings? If so, what solvent? Is this added solvent included in the calculation to determine % reduction required or to determine the "as applied" VOC content of coating?
- 40. Do you use cleaning solvents to clean spray guns, etc.? Do you include this amount when determining applicability to the MMP&P regulation? Are emissions from this cleaning solvent accounted for in your 1997 annual emissions report? Is cleaning solvent recycled? Density of cleaning solvent (lb/gal)?
- 41. What were your 1997 plantwide VOC emissions from MMP&P operations? (lbs/tons)
- 42. What do you anticipate your 1998 plantwide VOC emissions from MMP&P to be? (lbs/tons) Explain increases or decreases from 1997.
- 43. Have you looked into reformulation of your coatings? How many and which coatings have already been reformulated to compliant coatings? When?
- 44. How many gallons of coating used per day plantwide for MMP&P coating?

 Average = Maximum =
- 45. What percentage of parts coated are metal substrates?
- 46. Which booths/tanks are used solely to coat non-metal parts? What types of substrates coated in these booths/tanks (glass, plastic, wood, etc.)?

47. What are your annual VOC emissions from the coating of non-metal parts such as plastic, wood or glass? Does a RACT regulation apply (CTG or non-CTG)? What does RACT require? Are you complying?

BUFFING/GRINDING/SANDBLASTING QUESTIONS:

1. Have you any buffing, grinding or sandblasting operations at this facility? If yes, what and how many pieces of equipment do each type of work?

1- Sand blast-Room AlO3 1- Glass Bead or AlO3 Cabinetro (Blone Box)

2. Are these operations controlled? By what? How many control units? Which operations are controlled and which are not?

Sand BlastAmto Bag House grand when user says bay is log my bays changer

- 3. Do you observe any opacity or fugitive emissions? From where? Explain. Do a method 9 if applicable.
- 4. What type of parts are buffed, grinded or sandblasted?